

PATENT APPLICATION**A PROCESS FOR THE TRANSMISSION OF DATA REPRESENTING THE POSITION IN SPACE OF A VIDEO CAMERA AND A SYSTEM FOR IMPLEMENTING THE PROCESS**

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Filing organization: Yodea Editions

SUMMARY

The invention concerns a process and a system (1') for acquiring and transmitting, in real time, data representing the position in space, in terms of spatial coordinates and inclination with respect to a reference point, of a video camera (10'), while the camera moves along a trajectory. The acquired data, once processed, permit determination of the position and inclination of the images obtained. The system (1') consists of two principal subsystems: a module containing an inertial sensing unit (11') attached to the camera (10') and a module for data processing using stored software programs (2), communicating with the inertial sensing unit via a connection (112'), either wired or wireless.

It has applications in the integration of images captured by the camera with synthetic images and in navigation within a virtual universe.